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(71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-  
damm 94, 20099 Hamburg (DE).

(71) Applicant (for all designated States except DE, US):  
**KONINKLIJKE PHILIPS ELECTRONICS N.V.**  
[NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven  
(NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SABCZYNSKI, Jo-  
erg** [DE/DE]; c/o Philips Intellectual Property & Standards

GmbH, Weissshausstr. 2, 52066 Aachen (DE). **RASCHE,  
Volker** [DE/DE]; c/o Philips Intellectual Property & Stan-  
dards GmbH, Weissshausstr. 2, 52066 Aachen (DE).

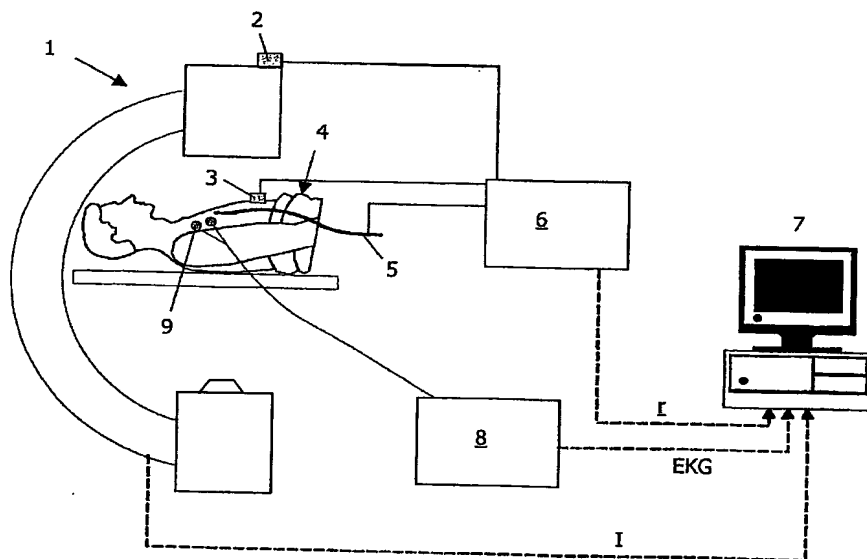
(74) Agent: **VOLMER, Georg**; Philips Intellectual Property &  
Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).

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[Continued on next page]

(54) Title: METHOD AND ARRANGEMENT FOR TRACKING A MEDICAL INSTRUMENT



(57) Abstract: The invention relates to a method and an arrangement for the intravascular or intracardial navigation of a catheter (5). Using an X-ray fluoroscopy device (1), firstly an image database of 2D images is generated, where at the same time as each 2D image (I) is taken the associated heartbeat phase is recorded using an ECG (8). During the catheter intervention, the position of the catheter (5) is measured by means of a position measurement unit (6), and at the same time the ECG and preferably also a signal that is dependent on the breathing movement are recorded. The current spatial position of the catheter (5) that is measured is then assigned the 2D image of the image database which corresponds in terms of the heartbeat phase and also possibly in terms of the breathing phase, on which image the position of the catheter can be represented.



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